Student Name	
Teacher Name	
School	
System	





Tennessee Comprehensive Assessment Program Modified Academic Achievement Standards ~ Grade 4 Practice Test



# Table of Contents

Introduction
What is the TCAP Modified Academic Achievement Standards Test?
What are the questions testing?
Who is eligible to be tested?
How long will the tests take?
How will the tests be scored?
May calculators be used?
Which test accommodations may be used?
What is the purpose of the practice test?
Here are some tips for preparing students for the test
Reading/Language Arts
Mathematics
Science
Social Studies
<b>Answer Key</b>

# Introduction

#### What is the TCAP Modified Academic Achievement Standards Test?

The TCAP Modified Academic Achievement Standards Test is a multiple-choice test designed to measure student achievement in certain skills in four content areas: Reading/Language Arts, Mathematics, Science, and Social Studies. The questions in this practice test are examples of items used in the actual test.

#### What are the questions testing?

Questions are written to test student performance in state content standards. The State Content Standards and Performance Indicators were developed by the Tennessee Department of Education. These Standards and Performance Indicators are listed on the State Department of Education Web site at http://www.state.tn.us/education/curriculum.shtml.

#### Who is eligible to be tested?

- 1. Students with a disability who are on an active IEP are eligible to take the MAAS.
- 2. Eligible students may have a disability in any of the Federal disability categories. Note: The category Functionally Delayed is a State category, but a student cannot be excluded from participation in this assessment based on category of disability. A student whose disability is classified as Functionally Delayed is eligible to participate in this assessment if determined eligible by the IEP team, but the student will be considered a non-participant and his scores cannot be counted for AYP. A student classified as Functionally Delayed taking the test would not count toward the 2% cap because he is considered a non-participant.
- 3. It is the decision of the IEP team whether or not a student with a disability should be assessed with the MAAS.

#### How long will the tests take?

The length of the tests will vary, depending on the grade level. The time limits are generous and allow most students time to finish. Extended time limits only apply to students who are eligible for special or English Language Learner (ELL) accommodations.

#### How will the tests be scored?

The test answers will be machine scored. Results from the test provide information about how well students performed on the content being tested.

#### May calculators be used?

Calculators may be used on Part 1 and 2 of the mathematics portion of the TCAP Modified Academic Achievement Standards Test (grades 3–8) as per system policy.

#### Which test accommodations may be used?

The TCAP Modified Academic Achievement Standards Test may be administered using various procedures that are used during the student's daily educational program. Certain conditions must be met for students to be eligible for special and ELL accommodations.

#### What is the purpose of the practice test?

In a classroom learning session, these questions can be used to prepare students for the actual test. Teachers can use the practice test to help familiarize students with the format of test questions and how the actual test will be administered. This practice test can also be used to inform parents of the type of test their children will be taking.

#### Here are some tips for preparing students for the test.

Remind students to:

**Relax:** It is normal to be somewhat anxious before the test. Remember that the score is only one of a number of measures of performance.

<u>Listen</u>: Listen to and read the test directions carefully.

<u>Plan Use of Time</u>: First, answer all the questions you are sure about. Do not spend too much time on any one question. If a question seems to take too long, skip it and return to it later if you have extra time.

<u>Pause and Think</u>: If you are not sure how to answer a question, carefully read it again. Rule out answer choices that you know are incorrect and then choose from those that remain.

# Reading/Language Arts



Part 1

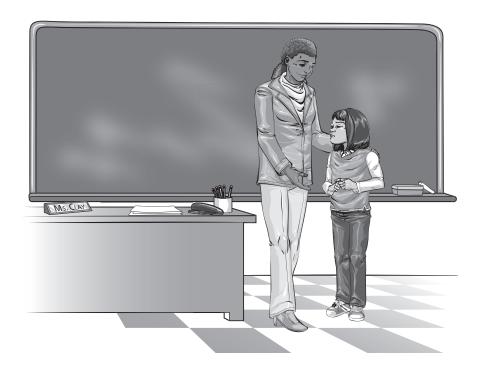
**Directions** 

Read the story. Then answer Numbers 1 through 5.

#### An Artist at Heart

- Rishi loved school. However, there was one class Rishi never enjoyed art class. She just wasn't any good at drawing or painting.
- One day Ms. Clay, the art teacher, told the class about a new project. Everyone in the entire school had to create a piece of art for the school art show. She said students could use the different styles of artwork that had been studied in class. Ms. Clay also said the artwork would be shown in the library. Rishi really liked her teacher, but this news made her feel very nervous. Rishi found herself sinking lower in her chair.
- "What am I going to create for the art show?" Rishi thought.
- Rishi decided to talk to Ms. Clay after school. She explained to her teacher that there was no way she could complete this project. Rishi told Ms. Clay that she would be willing to write a paper about art instead of doing an art project. Rishi said she was willing to do anything if she didn't have to create a piece of artwork for the art show.
- "I understand this project makes you feel worried, Rishi," Ms. Clay said. "Just remember, you can create any kind of art you want." Ms. Clay patted Rishi on the shoulder. "Art is a person's way of expressing his or her feelings. It isn't always painting or drawing. I know you will think of something very creative, and I can't wait to see it."

Go On >



- When Rishi arrived home, she went to her room to think about ideas for her project. Rishi realized she would have to put her fears aside and create a piece of art for the contest, but she had no idea what to do. She took out a piece of drawing paper and a pencil. She remembered Ms. Clay's words art is a person's way of expressing his or her feelings. Rishi wrote the word "worried" on her paper. She crumpled the paper and tossed it to the side of her desk. Her head dropped into her hands, and she let out a sigh.
- Rishi stared at the crumpled ball on the floor. The paper reminded her of a snowball. Suddenly a smile came across Rishi's face. The snowball sparked an idea to create a winter scene out of crumpled paper. Rishi wouldn't have to draw, paint, or even cut!
- Rishi crumpled up a stack of paper into balls. Then she glued them on a big piece of wood that she found in her garage. The crumpled papers formed a snowman with snow-covered mountains in the background. The snowman wore a hat made of torn, black paper and a scarf made of red paper. She took some pieces of brown and green paper and crumpled them to create a forest. Her finished project was a true work of art.

- On the day of the show, Rishi carefully carried her project into the school library. She noticed smiles from teachers and other students as she placed her work on a table. Her special artwork sat next to paintings and drawings. No other artwork looked anything like Rishi's project.
- Ms. Clay walked over to Rishi. She placed a first-place ribbon on her art. "You have created an original and amazing piece of artwork," Ms. Clay said. "I am so proud of you!"
- Rishi was proud of herself too. She was pleased with her final project. "Maybe art class isn't so bad after all," Rishi thought.



# 1 Read the sentence from Paragraph 2.

Everyone in the entire school had to <u>create</u> a piece of art for the school art show.

## Which word means about the same as the underlined word?

- **A** make
- **B** have
- **C** want

# **2** Read the sentence from Paragraph 5.

"Art is a person's way of expressing his or her feelings."

## What is the meaning of the underlined word?

- **F** choosing
- **G** showing
- **H** protecting

# **3** What will most likely happen in the future?

- **A** Rishi will make more art projects.
- **B** Ms. Clay will stop having art contests.
- **C** The other students will make art that looks like snow.

- 4 The author most likely wrote this story to
  - **F** give information about different types of artwork.
  - **G** share how a girl gets over a fear.
  - **H** show readers how to make a piece of art.
- 5 How can the reader tell that "An Artist at Heart" is fiction?
  - **A** It has rhyming words.
  - **B** It contains facts.
  - **C** It has characters.

## **Directions**

# A student wrote this letter. It has mistakes. Read the letter and answer Numbers 6 through 11.

May 23, 2009

#### Dear Ms. Franklin,

- (1) Thank you for guiding my fourth grade class through a tour of the Newton Science Center. (2) We liked seeing the displays and watching the movie about astronauts. (3) We learned a lot of valuable information and enjoyed the activities. (4) This was the best field trip ever.
- (5) When we return to school from the science center, we had a class discussion about what each of us liked most. (6) I said My favorite part was the Living in Space display. (7) The other kids in my class also liked it. (8) It was great to see how astronauts eat and sleep. (9) It is my dream to fly into space too. (10) What is your favorite part of the center, Ms. Franklin?
- (11) Thank you again for showing them around the center. (12) This is a field trip we will all remember for a long time (13) I will ask my mother to take me their soon. (14) I know it will be one of my moms favorite places too.

Sincerely,

Tasha Murray

## **6** Read Sentence 5.

When we <u>return</u> to school from the science center, we had a class discussion about what each of us liked most.

Choose the correct way to write the underlined part of the sentence.

**F** returns

**G** returning

**H** returned

## **7** Read Sentence 6.

I said My favorite part was the Living in Space display.

Choose the correct way to write the sentence.

- **A** I said, "My favorite part was the Living in Space display."
- **B** "I said," My favorite part was the Living in Space display.
- **C** "I said My favorite part was the Living in Space display."

## **8** Read Sentence 11.

Thank you again for showing them around the center.

Which word should replace the underlined word?

- **F** we
- **G** us
- **H** him

## **9** Read Sentence 12.

This is a field trip we will all remember for a long time

What punctuation mark should be placed at the <u>end</u> of the sentence?

- **A** "
- **B** ?
- **C** !

## **10** Read Sentence 13.

I will ask my mother to take me their soon.

Choose the correct way to write the underlined word.

- **F** they're
- **G** there
- **H** theyre

# 11 Read Sentence 14.

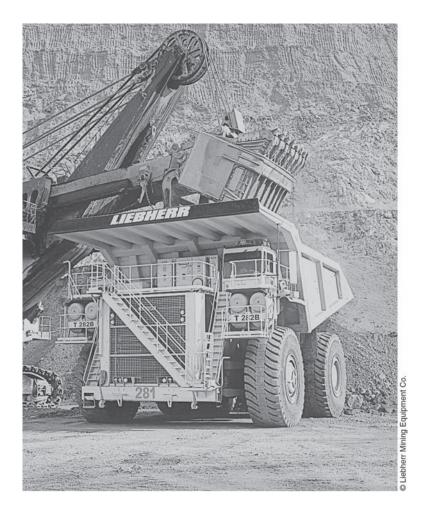
I know it will be one of my moms favorite places too.

Choose the correct way to write the underlined word.

- A moms'
- **B** momses'
- C mom's

# The Biggest Trucks in the World

by Pat Parker



Ultra haulers (or giant dump trucks) are the world's biggest trucks. They haul rocks and dirt at places called surface mines. Workers use mining shovels to dig up dirt and rocks, then pour them into the ultra haulers. The haulers rumble away to unload. Then they come back to get filled up again.

Ultra haulers do important work. Inside the dirt and rock that they haul are minerals, such as coal, copper, and gold. Coal is used to heat homes and to make steel and electricity. Gold and copper are found in thousands of items, from jewelry to cell phones to spacecraft.

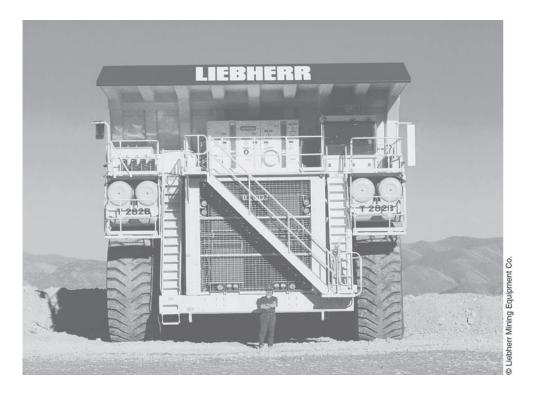
#### Too Heavy for the Highway

- An ultra hauler is heavy! It would sink into the road if it were driven to the mines where it works. So after it is built, it has to be taken apart again. The pieces are loaded onto trains or tractor-trailer trucks, then delivered to the mine. When the pieces arrive, workers put the truck together again.
- Today's biggest haulers can carry 400 tons. That is the weight of about 243 medium-sized cars. Even without a load, ultra haulers weigh between 250 and 400 tons the weight of about 40 elephants. If two of those elephants stood on top of each other, they would just reach the top of one truck. Hauler drivers have to climb stairs up to the trucks' cabs, nearly 20 feet off the ground.
- Larry Conner test-drives ultra haulers for a company that builds giant mining equipment. "Driving an ultra hauler is like driving a two-story house," Larry says. "You sit in your upstairs window, take the steering wheel, and start driving. It's a blast."

## The Only One of Its Kind

A few years ago, people in Sparwood, British Columbia, got together to save a special ultra hauler. It was the Terex Titan, the longest ultra hauler in the world. The truck had been used at a local coal mine for 12 years. Its huge engine cost so much to run that it had to be put out of use.

- The coal company and the people of Sparwood did not want the Terex Titan to go to the scrap pile. They collected donations and volunteered their time to make the truck ready for display.
- 8 Many visitors see the giant truck every year.



"The Biggest Trucks in the World" text by Pat Parker, photos by Leibherr Mining Equipment Co., from *Highlights for Children*, Sept. 2007, copyright © 2007 by Highlights for Children, Inc. Columbus, Ohio. Used by permission.

# **12** Read this sentence from Paragraph 3.

The pieces are loaded onto trains or tractor-trailer trucks, then delivered to the mine.

## What is the meaning of delivered in the sentence above?

- **F** saved
- **G** fastened
- **H** brought

# 13 Which sentence from the passage is an opinion?

- **A** Ultra haulers do important work.
- **B** Today's biggest haulers can carry 400 tons.
- **C** It's a blast.

- What would be the <u>best</u> source to find more information about ultra haulers?
  - **F** a magazine advertisement
  - **G** an online dictionary
  - **H** the Internet
- 15 How do drivers most likely get inside an ultra hauler?
  - **A** They are lifted up by a pulley.
  - **B** They climb the stairs to the top.
  - **C** They use another truck to lift them up.

# My Favorite Time of Year

Red, yellow, and orange. The colors of a sunrise Scatter across the trees Like millions of grains of sand.

- 5 The changing leaves whisper to me. A cool breeze softly Tickles my ear. It rustles, "I'm here. Your favorite time of year."
- 10 The nip in the air Is the opening act for winter's frost. The leaves let go and begin to fall. Blowing, billowing, and brushing, Waving goodbye to August so dear.
- 15 It calls, "I'm here. Your favorite time of year."



#### 16 Read the line from the poem.

Blowing, billowing, and brushing,

#### These words are an example of

- F rhyme.
- alliteration.
- **H** simile.

# 17 Read the first stanza.

Red, yellow, and orange.

The colors of a sunrise

Scatter across the trees

Like millions of grains of sand.

The changing leaves whisper to me.

A cool breeze softly

Tickles my ear.

It rustles, "I'm here.

Your favorite time of year."

## In this stanza, the author compares the scattered colors in the trees to

- **A** a cool breeze.
- **B** grains of sand.
- **C** a certain time of year.

# 18 When is the author's favorite time of year?

- F autumn
- **G** spring
- **H** summer

# The reader can tell that "My Favorite Time of Year" is a poem because it

- **A** has rhyming words.
- **B** tells the thoughts of the speaker.
- **C** describes the beauty of the outdoors.

Go On >

# The Great Book Swap

- Hi, fourth graders! My name is Tory Hill. I am a member of the Pace Elementary Book Club. I want to tell you about an idea the book club has. We have a reading project that we want to do, and we need your help.
- Do you ever have a hard time finding books you want to read? It seems 2 as if the best books at the library are always checked out. The club is planning the Great Community Book Swap to help get more books that people want to read. We are asking every student to bring books from home. They can then be traded for books from other students and even adults.
- To make the project a success, we need everyone's help. Ask your 3 friends and neighbors to send unwanted books. Look around your own home. Ask your parents if there are any unused books taking up space. Bring those books to school and make a reader's day. We need all kinds of books for all kinds of readers!
- Wouldn't it be great to swap books right here in our community? Volunteers will organize the donated books. Then the books will be displayed on tables at the community center. People will be able to look around and hopefully find the perfect books.
- If you don't have a favorite author or title, just come and browse the collection of books. When every grade has brought in books, we will have quite a selection. You will probably find at least one new book that you



would like to read. Who knows? Maybe you'll find a book so good that you won't be able to put it down.

- So, what are you waiting for? Go home and clean out your closets and bookshelves! Bring in those books!
- **20** Read the list of ideas Tory discussed in her speech.

1.	Finding the right book
2.	Asking for help from the
	students
3.	

## Which idea belongs on the blank line?

- **F** Collecting donated books
- **G** Knowing which books people want to read
- **H** Buying a collection of books

- While listening to Tory give her speech, the students should
  - **A** move to a better seat.
  - **B** sit quietly.
  - **C** watch the teacher.
- Which is the <u>best</u> summary of the speech?
  - **F** A new community project will help students find books.
  - **G** Children will be happy to have more books to read.
  - **H** The library will have more money to buy books.
- **23** Read this sentence from Paragraph 3.

Ask your parents if there are any unused books taking up space.

Which source should Tory use to find all the meanings for space?

- **A** an atlas
- **B** a thesaurus
- **C** a dictionary

- Tory wants to know which books fourth graders check out most often. Which is the best source for Tory to use?
  - **F** an online encyclopedia
  - **G** a flier about book swaps
  - **H** a school librarian
- Which source could Tory trust to find information about how to organize a book swap?
  - **A** a list of book titles offered at a book swap
  - **B** an interview with a person who has started a book swap
  - **C** a journal entry about finding a good book at a book swap
- **26** Read the analogy.

Forget is to remember as swap is to \_\_\_\_\_.

Which word best completes the analogy?

- **F** keep
- **G** borrow
- **H** rent

# **Directions** Read and answer Numbers 27 through 33.

- **27** Which statement could happen?
  - **A** Clouds make rain.
  - **B** Birds are able to sleep in clouds.
  - **C** Sometimes clouds touch the moon.
- Which behavior will <u>best</u> help students who are working on a project together?
  - **F** walking around
  - **G** moving supplies
  - **H** taking turns

#### Timeline of School Events 2007–2008

Sept. 10	Oct. 29	Feb. 26	Apr. 8	May 23	May 30
<b>←</b>			<del> </del>	<del></del>	<b>→</b>
Picture	Report cards	Science	4th grade	Awards	Last day
day	sent home	fair	play	program	of school

Which of these happened <u>before</u> the 4th grade play but <u>after</u> report cards were sent home?

- **A** Picture day
- **B** Science fair
- **C** Awards program

# **30** Look at this photograph.



## What is the main idea in this photograph?

- **F** A dance class is watching a performance.
- **G** A teacher is showing her students how to dance.
- **H** A child is having a difficult time following directions.

# **31** Read the sentence.

Kisha does not need her book today.

#### What is a correct way to write the underlined words?

- **A** don't
- **B** does'nt
- C doesn't

- What resource should Janie use to help her find where the capital of Tennessee is located?
  - **F** a dictionary
  - **G** an atlas
  - **H** a thesaurus
- **33** Read the sentence.

Dave askd if he could explain how to complete the project.

Which word is spelled incorrectly?

- A askd
- **B** explain
- **C** complete

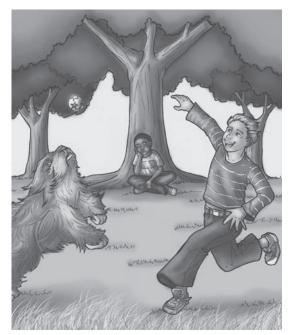


#### **Directions**

Read the story. Then answer Numbers 34 through 39.

# An Old Friend with a New Dog

- "Hello," Matt said into the telephone.
- His best friend Rob replied, "Hi, Matt. Do you want to go to the park later and toss the baseball around?"
- "Umm," Matt said. "I wish I could, but I need to give Buster a bath. Maybe we can go to the park tomorrow when I take Buster for a walk."
- "Sure," Rob replied. "I'll see you tomorrow. Bye."
- As Rob hung up the telephone, he let out a long sigh. His mother and older sister, Pam, looked up from the kitchen table. They knew Rob was unhappy.
- "Ever since Matt got that new dog, he doesn't have time to do anything," Rob complained. "Matt has to wash Buster, walk him, play with him, feed him, and teach him tricks. There is no time left for me!"
- "Getting a new pet is exciting, Rob," Mom said. "Before long, Matt will want to spend more time with you. Just be patient."
- Rob looked at Mom and sighed again. He already felt like he had been patient with Matt. He had helped him wash and walk Buster. Any time Buster was around, Buster got all the attention.



"If you really miss spending time with Matt," Pam began, "you should try to enjoy being with his dog. Matt has a new pet, and he is eager to spend time with him. You should be happy for your friend."

Rob didn't understand how pretending to be interested in Buster would help his friendship with Matt. "Maybe you could teach Buster how to catch a ball. One of your favorite things to do with Matt is to throw baseballs to each other. Plus, it is a game that all three of you could play together," said Pam.

Rob smiled. "I guess I could try," he said. "I can take a ball to the park 11 when we meet there tomorrow."

The next day, Rob met Matt and Buster at the park as planned. Matt 12 seemed surprised when Rob said he wanted to teach Buster how to fetch the ball.

Matt watched as Rob took Buster into an open field. Rob threw the ball, and Buster ran after it. He ran back to Rob and dropped the ball at his feet. Then Rob rubbed Buster's head. Teaching Buster a new trick seemed to be easy for Rob.

"You're great with Buster," Matt 14 said to Rob. "I'm glad you wanted to teach him a new trick, but he can't learn all the games we play. He can't pitch a baseball or hit a home run like you," Matt joked. "Let's take Buster home, and then we can go to the baseball field and practice batting."

Soon Rob and Matt were on their way to the baseball field, just like old times. Rob was glad that his old friend with a new dog was still his best friend.



# **34** Read the sentence from the passage.

They knew Rob was unhappy.

## What does the prefix un mean in the underlined word?

- **F** not
- **G** very
- **H** again

# **35** Look at the picture.



## What does this picture at the end of the story show the reader?

- **A** how the two boys feel
- **B** how far away the boys are from home
- **C** how to play ball

# **36** Look at the diagram.

Rob and Matt meet at the park.

Rob teaches Buster how to fetch a ball.

# Which event belongs in the empty box?

- **F** Rob and Matt talk on the phone.
- **G** Rob helps Matt walk Buster.
- **H** Rob and Matt take Buster home.

# **37** What is the <u>main</u> problem in the story?

- **A** Rob wants to get his own dog.
- **B** Matt has to care for a new pet.
- **C** Rob wants to spend time with Matt.

- **38** Where are Rob and Matt going at the <u>end</u> of the passage?
  - **F** to a playground
  - **G** to a baseball field
  - **H** to a park trail
- 39 Choose the question that can be answered after reading the passage.
  - **A** What do Rob and Matt like to do together?
  - **B** How far can Buster jump to catch a ball?
  - **C** Where did Matt go to get his new dog Buster?

## **Directions**

This is a rough draft of a student's report. It contains mistakes. Read the report and answer Numbers 40 through 45.

# **Crocodiles and Alligators**

- Many people have a hard time telling the difference between crocodiles and alligators. These animals appear to have many things in common. Crocodiles and alligators also have many differences.
- 2 Crocodiles have long noses in the shape of a "V." \_\_\_\_\_ alligators have wide, rounded noses that are shaped like a "U."
- Crocodiles have special glands in their tongues. These glands help them get rid of extra salt, which helps crocodiles to live in salt water. Alligators have these glands too, but his do not work as well. Therefore, alligators are more likely to live in freshwater lakes creeks and rivers.
- There are other differences between crocodiles and alligators.

  However, their noses and where they live are the main differences.

  It would be very exciting to see these different animals. By studying crocodiles and alligators closely, anybody can learn to tell them apart.

## **40** Read these sentences from Paragraph 1.

These animals appear to have many things in common. Crocodiles and alligators also have many differences.

#### Which sentence should be placed between the two sentences?

- **F** Animals like this are often dangerous.
- **G** Therefore, their names are often confused.
- **H** Sometimes these animals eat the same type of food.

# 41 Read these sentences from Paragraph 2.

Crocodiles have long noses in the shape of a "V." \_\_\_\_\_ alligators have wide, rounded noses that are shaped like a "U."

# Which word should be placed at the beginning of the second sentence?

- **A** Instead
- **B** However
- C Still

# **42** Read the sentence from Paragraph 3.

Alligators have these glands too, but his do not work as well.

## What is the correct way to write the underlined part of the sentence?

- **F** but its do not work as well
- **G** but theirs do not work as well
- **H** but ours do not work as well

# **43** Read the sentence from Paragraph 3.

Therefore, alligators are more likely to live in <u>freshwater lakes</u> creeks and rivers.

## Where do commas belong in the underlined part of the sentence?

- **A** freshwater lakes, creeks, and rivers
- **B** freshwater lakes creeks, and rivers
- **C** freshwater lakes, creeks, and, rivers

## 44 Read Paragraph 4.

There are other differences between crocodiles and alligators. However, their noses and where they live are the main differences. It would be very exciting to see these different animals. By studying crocodiles and alligators closely, anybody can learn to tell them apart.

#### Which sentence does not belong in this paragraph?

- **F** There are other differences between crocodiles and alligators.
- **G** However, their noses and where they live are the main differences.
- **H** It would be very exciting to see these different animals.

## **45** Read the sentence from Paragraph 4.

By <u>studying</u> crocodiles and alligators <u>closely</u>, <u>anybody</u> can learn to tell them apart.

## Which underlined word in the sentence is a compound word?

- **A** studying
- **B** closely
- **C** anybody

# Eagle's Flight



Soaring, flying, and gliding around — I see it all without touching the ground. Clouds like beds of cotton all around. To the left and right, bright blue skies surround.

5 But then dark skies roll into view, Gray thunderclouds push away the blue. When rumbles begin, it's one small clue. Then lightning flashes — a storm is abrew!

I fly high above where trouble grows 10 Watching reddish, golden, and greenish glows. Gone are blue skies. They've taken a doze. Storms are one of nature's greatest shows!

Once all is calm and the wind subsides Silver or black — nature decides.

15 Me, I keep drifting, choosing no sides. Taking a trip — one of many lone rides.

46	Wl	hich line from the poem has alliteration?
	F	I see it all without touching the ground.
	G	Watching reddish, golden, and greenish glows.
	Н	Storms are one of nature's greatest shows!

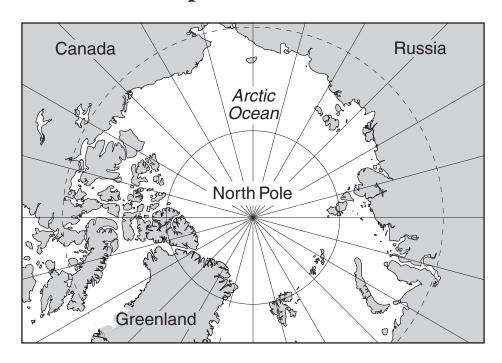
- 47 How does the eagle most likely feel after the storm is over?
  - A peaceful
  - **B** hopeful
  - **C** useful
- 48 Why is this poem like a fantasy?
  - **F** A bird hears thunder.
  - **G** A bird talks to the reader.
  - **H** A bird takes a trip.
- **49** Read the analogy.

Right is to left as bright is to \_\_\_\_\_.

Which word best completes the analogy?

- **A** dark
- **B** blue
- C calm

# Top of the World



The North Pole is located at the northernmost tip of Earth. It is hard to describe what the area looks like because there are no land features such as mountains, rivers, or volcanoes. In fact, the North Pole has no land at all! It is a large mass of ice in the middle of the Arctic Ocean. The nearest land is actually about 440 miles away.

#### Winter at the North Pole

- Winter at the North Pole is cold and dark. This part of Earth is tilted away from the sun during this time, so it doesn't get much sunlight at all! The North Pole stays in darkness until the spring.
- Without the sun, temperatures at the North Pole fall many degrees. February is the coldest month. Average temperatures stay around –30°F. The cold temperatures cause much of the ocean surface to freeze.

#### Summer at the North Pole

In the spring, the sun begins to be seen on the horizon at the North Pole. Daylight begins again! Each day, the sun appears higher in the sky. By summer, sunlight shines all day and all night.

When the summer sun shines, the temperature warms the North Pole. July is the warmest month, with temperatures rising to a chilly 32°F. The warmer temperatures cause the large areas of ice to melt and shrink in size.

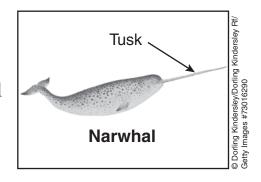
#### **Arctic Animals**

Some animals are able to live in such cold temperatures near the North Pole. For example, polar bears live in the North Pole. They are strong swimmers and are able to swim across miles of water at a time. They hunt seals that rest on the drifting ice.



**Polar Bears** 

- Ringed seals hunt for fish beneath the ice. The holes in the ice give them places to come up for air. In the spring, seals give birth to babies, called pups, inside dens that are formed in the ice.
- The narwhal is a small Arctic whale that lives in the deep Arctic waters. It is known for its single spiral tusk. This tusk has caused people to nickname the animal the "unicorn of the sea." The unusual tusk is actually a very long tooth.



#### Travel to the Top

The first people to travel to the North Pole made the dangerous trip by dogsled in 1909. About fifty years later, a submarine was the first watercraft to cross the North Pole. Today, planes fly over the North Pole while traveling between continents. No one lives at the North Pole because the temperatures are so cold and because there is no actual land on which to build.

#### Trouble at the Top

The Arctic area is a beautiful place. However, some scientists worry that it is changing. In recent years, the ice at the North Pole has seemed to shrink. This could cause some animals to lose their homes. People are studying the problem to find ways to save this icy part of the world.

## **50** Read the sentence from Paragraph 2.

This part of Earth is <u>tilted</u> away from the sun during this time, so it doesn't get much sunlight at all!

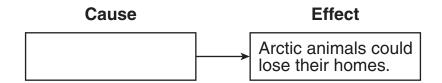
#### Which word means the same as tilted?

- **F** crowded
- **G** divided
- **H** turned

## **51** Which sentence from the passage is an opinion?

- **A** By summer, sunlight shines all day and all night.
- **B** Ringed seals hunt for fish beneath the ice.
- **C** The Arctic area is a beautiful place.

## **52** Read the chart below.



#### Which of these belongs in the empty box?

- **F** The ice at the North Pole is shrinking.
- **G** Some months the sun does not rise at the North Pole.
- **H** The temperatures at the North Pole are cold.

## **53** Which section explains why the surface of the ocean freezes?

- **A** Winter at the North Pole
- **B** Summer at the North Pole
- **C** Trouble at the Top

## **54** The map in the passage helps the reader because it

- **F** explains why animals live near the North Pole.
- **G** gives information about temperatures at the North Pole.
- **H** shows where the North Pole is located.

- Kate is doing a report about the North Pole. Which source could <u>not</u> be used in 1909?
  - **A** a book
  - **B** the Internet
  - **C** a newspaper
- What information can be found by looking at the picture of the narwhal?
  - **F** the name of a body part on the narwhal
  - **G** where the narwhal lives
  - **H** how much the narwhal weighs

# Read the paragraph about dragon fruit. Then answer Numbers 57 through 60.

# **Dragon Fruit**

You might change your mind after eating a dragon fruit. A dragon fruit is a fruit that comes from a cactus, but without any thorns. I bet you'll like it too, if you can get past how it looks on the outside. Some people think dragon fruit tastes so good, they call it "watermelon on trees." The inside of the fruit can be eaten, but the skin cannot. When you cut it in half, the sweet inside is generally white or pinkish, with tiny black seeds.

- Which sentence would make the <u>best</u> topic sentence for this paragraph?
  - **A** Most cacti have prickly thorns growing from them.
  - **B** When most people think of a cactus, they want to stay away from it.
  - **C** Many types of fruit can be found in Mexico, Vietnam, and China.
- 58 The author most likely wrote this paragraph for people who
  - **F** enjoy gardening.
  - **G** work in a kitchen.
  - **H** like to try new things.

- **59** What is another good title for this paragraph?
  - **A** Fruit From a Cactus?
  - **B** Fruit Is Good for You
  - **C** Cacti Have Thorns

# 60 The author most likely wrote this paragraph to

- **F** inform readers about an interesting fruit.
- **G** persuade readers to grow dragon fruit.
- **H** share with readers how to eat dragon fruit.

**Directions** Read and answer Numbers 61 through 66.

**61** Read the sentence.

Three kids ran across the field, but Josh was the fast.

What is the correct way to write the underlined word?

- **A** faster
- **B** fasterest
- **C** fastest
- Which source would <u>best</u> help Erin find information about how electricity is made?
  - **F** a science book
  - **G** a newspaper article
  - **H** a dictionary entry

## **63** Read the incomplete sentence.

The dog with a collar.

### Which is a correct way to complete the sentence?

- **A** The dog with a brown collar.
- **B** The dog with a collar barked.
- **C** The dog with a collar and bone.

## **64** Read the chart.

	Favorite Food	Favorite Drink
Andy	oranges	milk
Carrie	cheese	juice

## What information should go in the empty box?

- **F** Students
- **G** Types of Fruit
- **H** Dairy Products

- **65** Choose the sentence that shows correct use of commas.
  - **A** The student uses pens, pencils, and, paper.
  - **B** The student uses pens pencils, and, paper.
  - **C** The student uses pens, pencils, and paper.
- **66** Read the table of contents from a science book about plants.

Chapter 1 Types of PlantsChapter 2 What Plants Need to LiveChapter 3 Life Cycle of Plants

Which chapter would have information about how much water a plant should receive?

- **F** Chapter 1
- **G** Chapter 2
- **H** Chapter 3



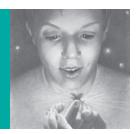
DO NOT

MARK

ON THIS

PAGE

# **Mathematics**



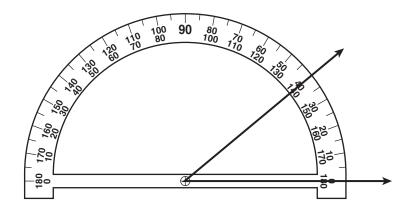
Part 1

1 Add:

$$0.3 + 0.18 =$$

- **A** 0.48
- **B** 0.21
- **C** 0.11
- In the year 2006, a county in Tennessee had a population of nineteen thousand, four hundred five. How is nineteen thousand, four hundred five written as a numeral?
  - **F** 19,405
  - **G** 19,045
  - **H** 1,945

- Paula has a total of c baseball cards in 3 equal groups. Which expression can be used to find the number of cards in each of these groups?
  - **A** *c* − 3
  - **B** c ÷ 3
  - $\mathbf{C}$   $c \times 3$
- 4 Devon drew an angle, as shown below.



- Sarah drew an angle that was twice the measure of Devon's angle. What was the measure of Sarah's angle?
- **F** 20°
- **G** 70°
- **H** 80°

**5** Solve:

$$0.53 - 0.09 =$$

- **A** 0.56
- **B** 0.54
- **C** 0.44
- The table below shows the number of computers sold at a store during three days of a sale.

**Computer Sales** 

Day	Number of Computers Sold
Friday	124
Saturday	381
Sunday	256

- According to the table, which is the <u>best</u> estimate of the total number of computers sold at this store during these three days?
- **F** 600
- **G** 800
- **H** 900

63,152

- **A** 3 ten-thousands
- **B** 3 thousands
- C 3 tens
- **8** Which number sentence is true?

**F** 
$$6 + (8 + 7) = (6 + 8) + 7$$

**G** 
$$6 + (8 + 7) = (6 + 14) + 7$$

**H** 
$$6 + (8 + 7) = (6 + 15) + 7$$

- **9** Rashaad wants to measure the length of his writing pen. Which unit is <u>best</u> for Rashaad to use?
  - **A** meter
  - **B** kilometer
  - **C** centimeter

Meena drank 5,000 milliliters of water on Saturday. How many liters are equal to 5,000 milliliters?

1 liter = 1,000 milliliters

- **F** 5 liters
- **G** 50 liters
- **H** 500 liters
- There are a total of 516 trees in 6 parks. There are an equal number of trees in each park. Exactly how many trees are in each park?
  - **A** 96
  - **B** 86
  - **C** 81

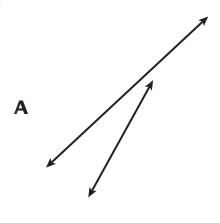
The table below shows the total number of servings of cereal in different numbers of boxes.

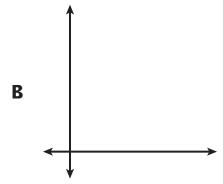
**Boxes of Cereal** 

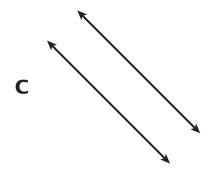
Number of Boxes	Total Number of Servings
1	6
2	12
3	18
4	24
5	?

According to the pattern in the table, what is the total number of servings of cereal in 5 boxes?

- **F** 30
- **G** 36
- **H** 42







14 One-fourth of the puppies below has spots.



Which decimal number is equivalent to  $\frac{1}{4}$ ?

- **F** 0.25
- **G** 0.34
- **H** 0.75

15

The pictograph below shows the number of books read by the students in 4 teachers' classrooms last month.

#### **Books Read**

Mr. Perez	
Ms. Simmons	
Mrs. Norcross	
Mrs. Lee	

**Key:** = 10 books read

Which table matches the information in the pictograph?

#### **Books Read**

A

Classroom	Number of Books Read
Mr. Perez	50
Ms. Simmons	70
Mrs. Norcross	40
Mrs. Lee	60

#### **Books Read**

Classroom	Number of Books Read
Mr. Perez	50
Ms. Simmons	65
Mrs. Norcross	40
Mrs. Lee	55

#### **Books Read**

В

Classroom	Number of Books Read
Mr. Perez	50
Ms. Simmons	60
Mrs. Norcross	40
Mrs. Lee	50

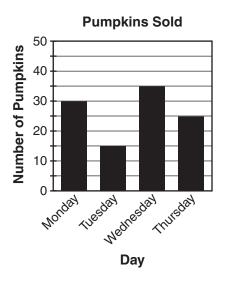
16	Mr. Salinas bought 5 boxes of pencils. Each box contained 72 pencils. What was the total number of pencils in these boxes?
	<ul><li>F 360</li><li>G 350</li><li>H 77</li></ul>
17	Use the centimeter side of your ruler to help you solve this problem.  Which of these figures has a perimeter of 14 centimeters?
	<b>A</b>
	В
	c

- 18 LeShawn used triangles to make designs. In each design, he used 6 triangles. Which expression can be used to find the number of triangles he used to make d of these designs?
  - $\mathbf{F} \quad 6 \times d$
  - **G** 6 ÷ *d*
  - **H** 6 + d
- The students at a school collected cans of food. 19
  - The fourth-grade students collected 564 cans.
  - The fifth-grade students collected 739 cans.

What was the total number of cans collected by these students?

- 1,303 Α
- B 1,293
- C 175

The graph below shows the number of pumpkins sold on each of four days on a farm.



Which table correctly matches the information in the graph?

**Pumpkins Sold** 

F

Day	Number of Pumpkins
Monday	30
Tuesday	10
Wednesday	30
Thursday	20

**Pumpkins Sold** 

Number of Pumpkins

20 40

30

Day
Monday
Tuesday
Wednesday

Thursday

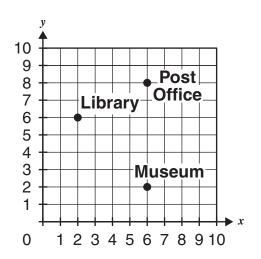
Н

**Pumpkins Sold** 

G

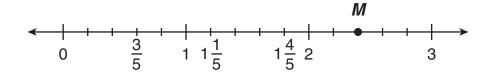
Day	Number of Pumpkins
Monday	30
Tuesday	15
Wednesday	35
Thursday	25

The coordinate grid below shows the locations of 3 buildings in a town.



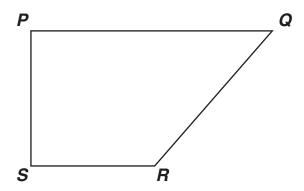
- According to the grid, which building appears to be located at (6, 2)?
- **A** Library
- **B** Museum
- **C** Post Office
- **22** Which number is a common <u>factor</u> of 12 and 28?
  - **F** 4
  - **G** 6
  - **H** 7

Which mixed number is <u>best</u> represented by Point *M* on the number line below?



- **A**  $2\frac{2}{6}$
- **B**  $2\frac{2}{5}$
- **C**  $3\frac{3}{5}$
- **24** Which number sentence is <u>true</u>?
  - **F**  $\frac{2}{4} < \frac{4}{10}$
  - **G**  $\frac{6}{8} > \frac{6}{10}$
  - **H**  $\frac{7}{10} > \frac{3}{4}$

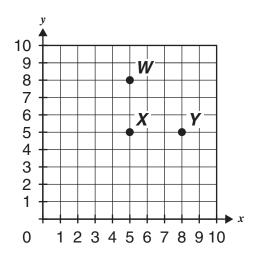
Figure PQRS is shown below.



Angle R appears to be what type of angle?

- **A** obtuse
- acute
- right

**26** A coordinate grid is shown below.



Which ordered pair <u>best</u> represents the location of Point Y?

- **F** (5, 5)
- **G** (5, 8)
- **H** (8, 5)

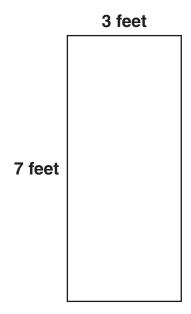
DO NOT

MARK

ON THIS

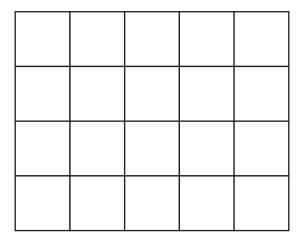
PAGE

The picture below shows the dimensions of a rectangular closet door.



What is the perimeter of the closet door?

- **A** 10 feet
- **B** 20 feet
- **C** 21 feet
- Which decimal number is equivalent to  $\frac{9}{4}$ ?
  - **F** 2.75
  - **G** 2.25
  - **H** 2.1



= 1 square centimeter

What is the area of the index card?

 $Area = length \times width$ 

- 20 square centimeters
- 18 square centimeters
- C 9 square centimeters

- A baseball team has *p* players. A football team has 5 more players than the baseball team. Which expression can be used to find the number of players on the football team?
  - **F** p 5
  - **G** p + 5
  - **H**  $p \times 5$
- 31 Divide:

$$805 \div 5 =$$

- **A** 161
- **B** 107
- **C** 101

- The list below shows the number of each color of car in a **32** parking lot.
  - There are 18 red cars.
  - There are 16 blue cars.
  - There are 6 white cars.
  - There are 10 green cars.

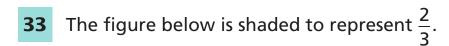
The pictograph represents the information in the list.

**Cars in Parking Lot** 

Red	
Blue	
White	
Green	

Which key correctly completes the pictograph?

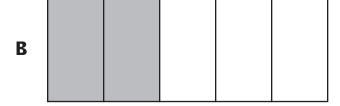
- Each means 5 cars.
- **G** Each means 4 cars.
- H Each means 2 cars.

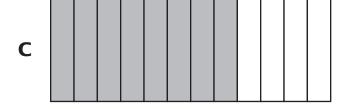




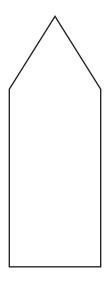
Which figure is shaded to show a fraction equal to  $\frac{2}{3}$ ?







How many angles on the figure below appear to be acute?



- 5
- **G** 2
- **H** 1

**Subtract:** 

$$\frac{7}{12} - \frac{2}{4} =$$

A table in a classroom is exactly 6 feet long. How long is this table, in inches?

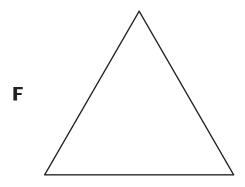
$$1 \; foot = 12 \; inches$$

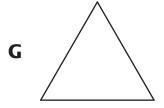
- **F** 2 inches
- **G** 18 inches
- **H** 72 inches
- **37** Which number is a common multiple of 6 and 8?
  - **A** 16
  - **B** 24
  - **C** 36



Use the centimeter side of your ruler to help you solve this problem.

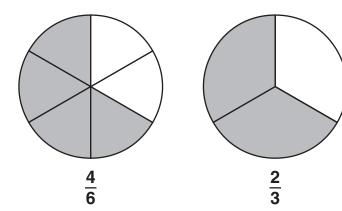
Sonia drew a triangle with a length of 3 centimeters on each side. Quentin drew a triangle with a length that was 2 centimeters longer on each side. Which of these triangles could be Quentin's triangle?







- A city received a total of 12.4 centimeters of rain in 1 week. How is the number 12.4 written in words?
  - A twelve and four hundredths
  - **B** one hundred twenty-four
  - **C** twelve and four tenths
- 40 The models below are shaded to represent two fractions.



- Which number sentence about these fractions is correct?
- **F**  $\frac{4}{6} < \frac{2}{3}$
- **G**  $\frac{4}{6} > \frac{2}{3}$
- **H**  $\frac{4}{6} = \frac{2}{3}$

The table below shows the total number of batteries in 41 different numbers of packages.

**Packages of Batteries** 

Number of Packages	Total Number of Batteries
3	12
6	24
9	36
12	48

Based on the table, what is one way to find the total number of batteries in 15 packages?

- A multiply 15 by 4
- **B** multiply 15 by 9
- **C** add 15 and 9
- Marco will save \$5 every week. How many weeks will it take Marco to save a total of exactly \$75?
  - F 70 weeks
  - **G** 15 weeks
  - **H** 11 weeks
- 43 Linda measured the weight of a banana. Which of these is closest to the weight of a banana?
  - **A** 4 pounds
  - **B** 4 ounces
  - C 4 tons

Each package of balloons at a store has 5 balloons. Which table shows the relationship between the number of packages and the total number of balloons?

#### **Packages of Balloons**

F Number of Packages of Balloons

2 5
4 10
6 15
8 20

#### **Packages of Balloons**

 Number of Packages
 Total Number of Balloons

 2
 10

 4
 15

 6
 20

 8
 25

#### **Packages of Balloons**

 Number of Packages
 Total Number of Balloons

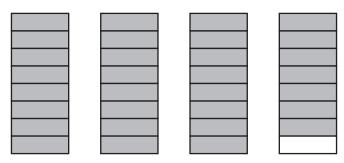
 2
 10

 4
 20

 6
 30

 8
 40

The model below is shaded to show  $3\frac{7}{8}$ .



Which improper fraction is equivalent to  $3\frac{7}{8}$ ?

- **A**  $\frac{59}{8}$
- **B**  $\frac{31}{8}$
- **c**  $\frac{29}{8}$
- A tennis team drank 3 gallons of water on Thursday. How many quarts of water did the tennis team drink on Thursday?

- **F** 7 quarts
- **G** 12 quarts
- **H** 13 quarts

**47** Which number sentence is <u>true</u>?

**A** 
$$11 \times 7 = 70 \times 7$$

**B** 
$$11 \times 7 = 70 + 7$$

**C** 
$$11 \times 7 = 77 + 7$$

**48** Which number has a 6 in the hundreds place?

The table below shows the number of times each of 3 players practiced tennis last month.

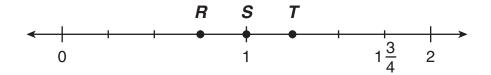
**Tennis Practices** 

Name	Number of Times Practiced
Debbie	8
Gabriel	24
Peter	3

According to the table, how many more times did Gabriel practice tennis than Debbie and Peter combined?

- **A** 35
- **B** 13
- **C** 11

Which point <u>best</u> represents  $1\frac{1}{4}$  on the number line below?



- Point R F
- Point S
- Point T

51 Miguel bought 6.5 gallons of gasoline. He used 3.8 gallons of this gasoline. How many gallons of this gasoline did Miguel have left?

- **A** 3.7
- 3.3 В
- **C** 2.7

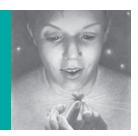
DO NOT

MARK

ON THIS

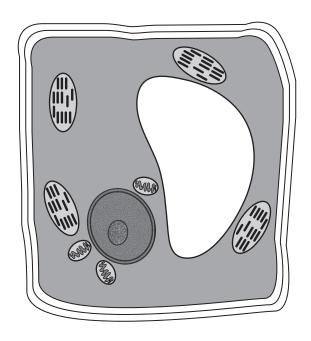
PAGE

# Science



Part 1

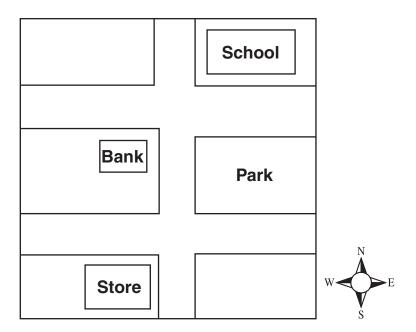
1 A diagram of a plant cell is shown below.



Which part is only found in plant cells?

- **A** nucleus
- **B** vacuole
- **C** chloroplast

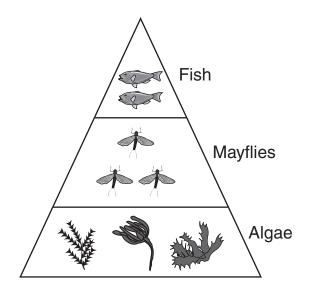
- Which unit is <u>best</u> to use when measuring a volume of cooking oil?
  - **F** centimeter
  - **G** centigram
  - **H** milliliter
- 3 Look at the map of a town below.



#### Where is the store located?

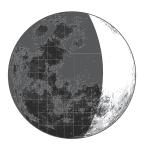
- **A** east of the school
- **B** south of the bank
- **C** north of the park

- A teacher tells the class that it will be cold and rainy. Which term best describes this information?
  - **F** season
  - **G** weather
  - **H** climate
- 5 An energy pyramid is shown below.

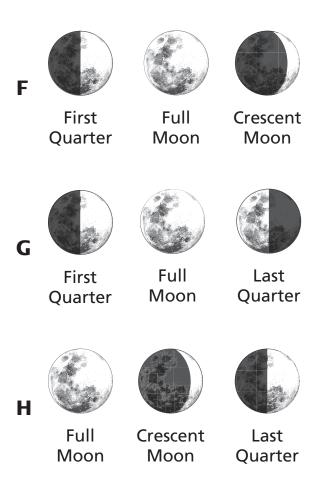


### Which organisms are producers?

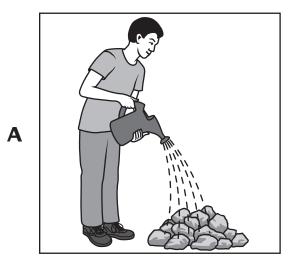
- **A** Fish
- **B** Mayflies
- **C** Algae



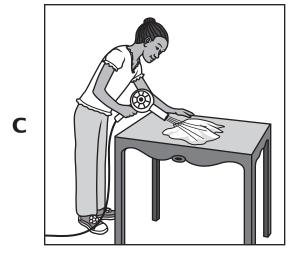
## Which shows the correct order of moon phases that would follow?



## Which action would <u>best</u> model wind erosion?

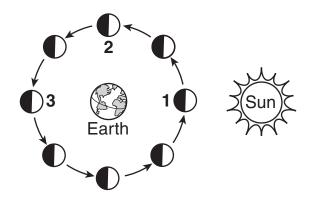






Go On ▶

- 8 What causes water in a stream to flow downhill?
  - **F** wind
  - **G** gravity
  - **H** friction
- **9** A drawing of the sun-Earth-moon system is shown below.

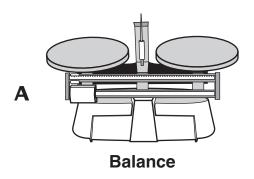


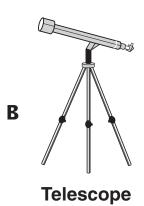
Where would the moon be when a full moon can be seen on Earth?

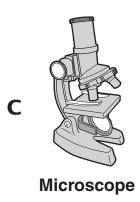
- **A** 1
- **B** 2
- **C** 3

- Giraffes have long necks. This adaptation helps these animals survive by allowing giraffes to
  - **F** run faster.
  - **G** hide from predators.
  - **H** reach more food.

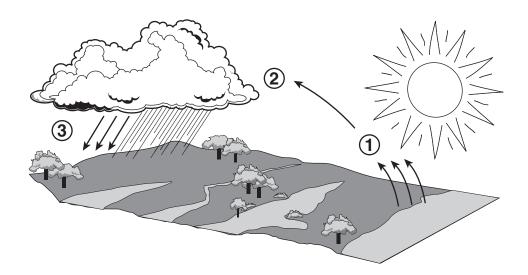
11 The invention of which tool helped scientists see small parts in cells?







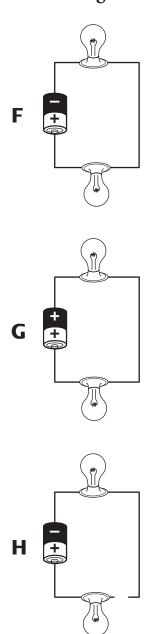
12 A drawing of a water cycle is shown.



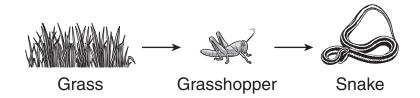
### Which process happens at the number 3?

- **F** condensation
- **G** precipitation
- **H** evaporation
- A student ran a plastic comb through her hair. Then the student placed the comb near a sheet of tissue paper. Which most likely happened next?
  - **A** The comb made the tissue smaller.
  - **B** The comb and the tissue were attracted.
  - **C** The comb repelled the tissue.

# 14 Which diagram correctly shows a circuit that will light the bulbs?



- A student wants to know if sugar will undergo a physical change. Which investigation will best test for a physical change?
  - **A** burning sugar with a flame
  - **B** mixing sugar with water
  - **C** observing sugar under a microscope
- 16 The diagram below shows a food chain from a habitat.



Which would most likely happen if a population of rabbits was introduced to this habitat?

- **F** The grass would grow longer.
- **G** The population of snakes would increase.
- **H** The population of grasshoppers would have less to eat.
- Some eagles eat fish that contain chemicals from polluted water. Some chemicals cause the eagles' eggs to have thin shells that break easily. Which will most likely happen to eagles that live near polluted water?
  - **A** The eagles will eat other foods.
  - **B** More eagles will migrate south.
  - **C** Fewer eagles will survive.

18 A photo of a lamp is shown below.



When the lamp is on, which type of energy is being produced?

- **F** light
- **G** chemical
- **H** nuclear
- 19 Which earth material is **best** used to conduct electricity?
  - A copper
  - **B** glass
  - **C** steel

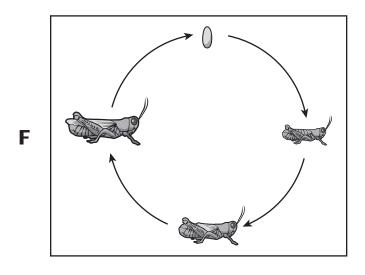
**20** A worker used a wheelbarrow to move some soil.

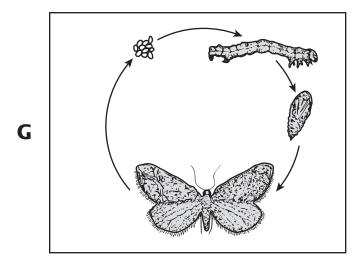


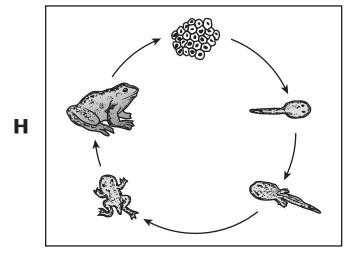
Which of these was reduced by using the wheelbarrow to move the soil?

- **F** friction
- **G** gravity
- **H** air pressure
- Water vapor in the air forms water droplets on glass windows only when the glass is
  - **A** the same temperature as the air around it.
  - **B** warmer than the air around it.
  - **C** cooler than the air around it.

## Which diagram shows an incomplete metamorphosis?



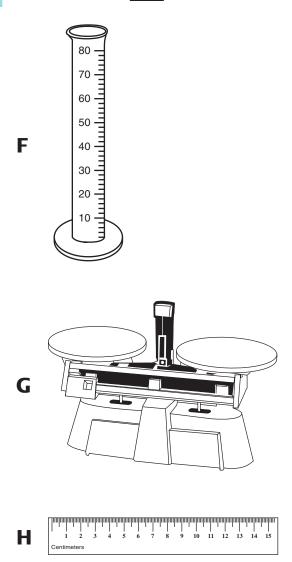




Page 92 | Grade 4 Science

- Which material is used as a source of heat to help people keep warm when it is cold?
  - **A** iron
  - **B** gold
  - **C** natural gas
- Which tool will <u>best</u> measure the boiling point of water?
  - **F** thermometer
  - **G** stopwatch
  - **H** meter stick
- Today glaciers are melting faster than in the past. The air temperature around glaciers over a period of years is <u>best</u> described as
  - **A** weather.
  - **B** climate.
  - **C** precipitation.

## Which tool is <u>best</u> to measure the volume of a liquid?

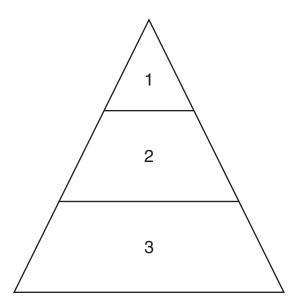


- **27** Which object will most likely be transparent?
  - **A** glass window
  - **B** wooden door
  - **C** metal cabinet
- A student made a stack of three magnets. In which stack are all three magnets attracted to each other?

N S
N S
S N

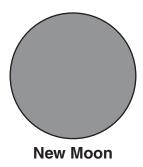
G N S N N S

S N
S N
N S



Rabbits are animals that eat plants. Where in the energy pyramid would a rabbit belong?

- **A** 1
- **B** 2
- **C** 3

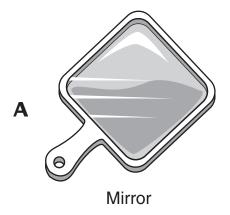


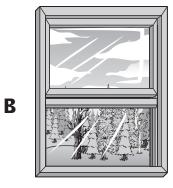
### What causes this phase of the moon?

**F** The sun is rotating around Earth.

**G** The moon is between Earth and the sun.

**H** Earth is between the sun and the moon.





Window



Glasses



DO NOT

MARK

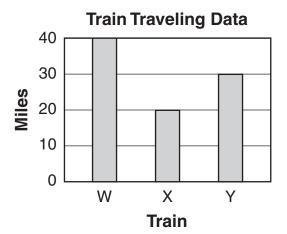
ON THIS

PAGE

## Part 2

- Which part of a cell is found in plant cells but <u>not</u> in animal cells?
  - **F** cell membrane
  - **G** cell wall
  - **H** nucleus
- 33 What type of energy is stored in a battery?
  - **A** chemical
  - **B** heat
  - **C** light

The graph shows the distance that three different trains traveled.

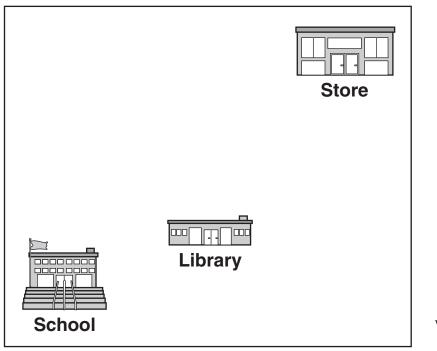


If each train traveled for four hours, which train traveled at the fastest speed?

- **F** Train W
- **G** Train X
- **H** Train Y

- A student wants to find out how long it will take for a cup of hot water to change from a liquid to a gas. Which of these activities will best help the student?
  - **A** using a magnifying glass to watch the change
  - **B** using a thermometer to measure the temperature
  - **C** using a stopwatch to record the time
- **36** The thick fur of a polar bear most likely helps it survive by
  - **F** keeping it warm.
  - **G** helping it find food.
  - **H** protecting it from predators.

**City Map** 





Students are walking from the school to the store. In what direction are the students traveling?

- **A** northwest
- **B** northeast
- **C** southeast
- **38** Which moon phase comes right after a new moon?
  - **F** full moon
  - **G** quarter moon
  - **H** crescent moon

Go On ▶

# People living near a small field sprayed a strong chemical to get rid of the insects living there.



### How will fewer insects in the field affect flowering plants?

- **A** Fewer flowering plants will reproduce.
- **B** The flowers will produce less nectar.
- **C** The plants will produce more flowers.

A student rubbed a balloon on her head. The student then held the electrically charged balloon over some small pieces of paper.



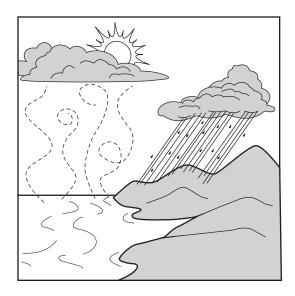
#### What will most likely happen to the small pieces of paper?

- **F** The pieces will stick to the table.
- **G** The pieces will be attracted to the balloon.
- **H** The pieces will move away from the balloon.

## 41 Which statement is the best description of climate?

- **A** The yearly rainfall average for Nashville, Tennessee, is 122 centimeters.
- **B** Knoxville, Tennessee, had 10.2 centimeters of rain today.
- **C** The temperature was 10°C in Jackson, Tennessee, on Monday.

## A diagram of a water cycle is shown.



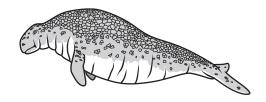
## Which process forms clouds?

- **F** runoff
- **G** condensation
- **H** precipitation



What type of energy is used to cook food in an oven?

- **A** heat
- solar
- **C** chemical



When Steller's sea cows were alive, much of their bodies were used by humans. Which is the most likely reason the Steller's sea cow became extinct?

- It was over-hunted.
- **G** Its food ran out.
- **H** Its habitat was destroyed.
- Four phases that appear after a full moon are shown below out of order.





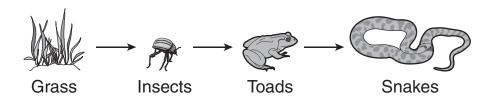




Which of these shows the correct order of the phases that follow the full moon?

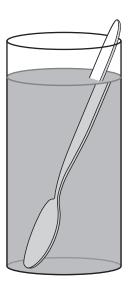
- **A** 2-3-1-4
- **B** 2-4-1-3
- C 3 1 4 2

#### A food chain is shown below.



## What would happen first if the snakes were removed from this food chain?

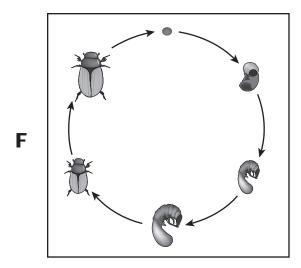
- **F** The grass population would increase.
- **G** The insect population would increase.
- **H** The toad population would increase.

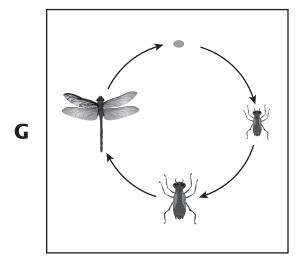


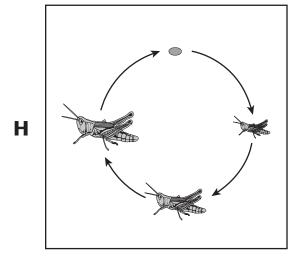
## The spoon looks broken because light is

- **A** absorbed.
- reflected.
- **C** refracted.

## Which life cycle diagram shows complete metamorphosis?

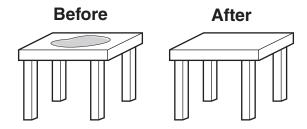






Go On ▶

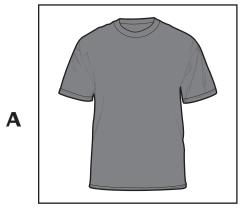
## 49 A puddle of water was left on a table in a classroom.



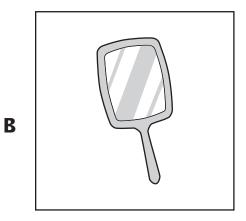
What most likely caused the water on the table to evaporate?

- **A** heat
- **B** wind
- **C** gravity
- **50** The number of rainy days during a month would be an example of
  - **F** season.
  - **G** climate.
  - **H** weather.

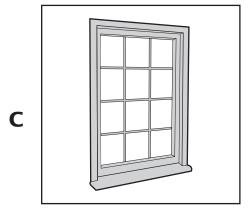
## **51** Which object shown below is most likely transparent?



T-shirt



**Hand Mirror** 



**Glass Window** 

# Which unit should students use to record the temperature of a liquid?

**F** degree Celsius

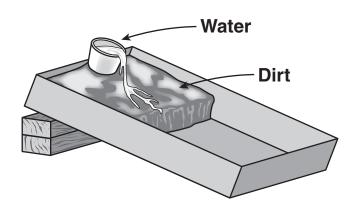
**G** centimeter

**H** milliliter

## Which best describes what happens to an ice cube when it melts?

- **A** It changes from a liquid to a gas.
- **B** It changes from a solid to a liquid.
- **C** It changes from a gas to a solid.

## **54** The picture below shows an investigation.



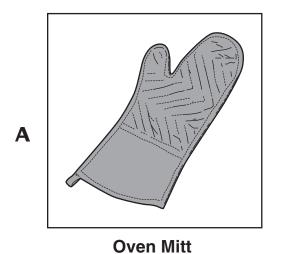
This experiment is most likely intended to model erosion by

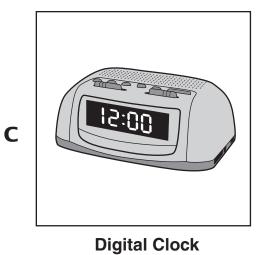
**F** dirt.

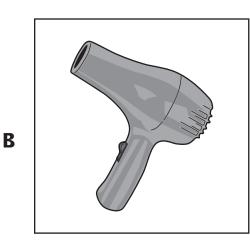
**G** wind.

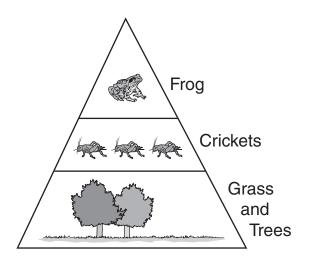
**H** water.

Scientists have discovered that a type of plastic is an effective insulator to block heat. What tool was developed as a result of this discovery?









## Based on the energy pyramid, the frog is

- **F** an herbivore.
- **G** a carnivore.
- **H** a producer.

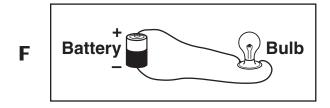
The table below shows how long it took three cars to travel 10 miles each.

**Travel Data** 

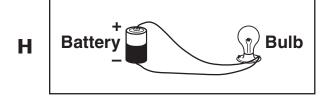
Car	Time (minutes)
Red Car	15
Green Car	20
Blue Car	30

### Which car had the slowest speed?

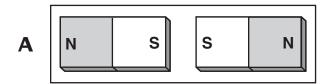
- A Red Car
- **B** Green Car
- **C** Blue Car

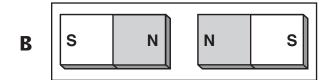






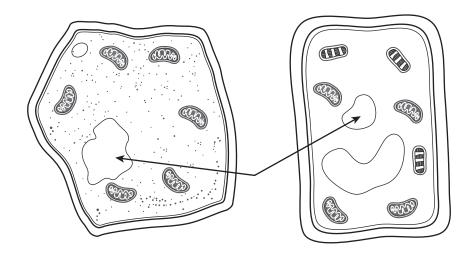
**59** Which picture shows magnets that attract each other?





C S N S N

**60** Diagrams of a plant and animal cell are shown.



At which part of the cells are the arrows pointing?

- F cytoplasm
- **G** vacuole
- **H** nucleus
- Which tool should be used to measure the volume of water in a paper cup?
  - A microscope
  - **B** graduated cylinder
  - **C** thermometer



DO NOT

MARK

ON THIS

PAGE

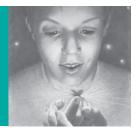
DO NOT

MARK

ON THIS

PAGE

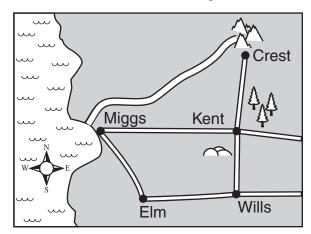
# **Social Studies**

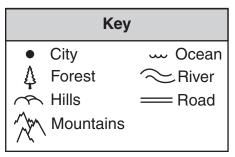


#### Part 1

- 1 Which action is an example of a person using a money system?
  - **A** Ricardo pays forty dollars for a new basketball.
  - **B** Sonia gives her extra fruit cup to a new friend.
  - **C** Michelle receives a holiday card from her neighbor.
- **2** One reason for writing the United States Constitution was that
  - **F** the government had no judicial system.
  - **G** taxes were owed by large companies.
  - **H** the country was divided over slavery.
- Which Native American group lived in Tennessee before the Europeans arrived?
  - **A** Aztec
  - **B** Creek
  - C Olmec

### **Grant County**





### Kent is located nearest to

a forest.

a mountain.

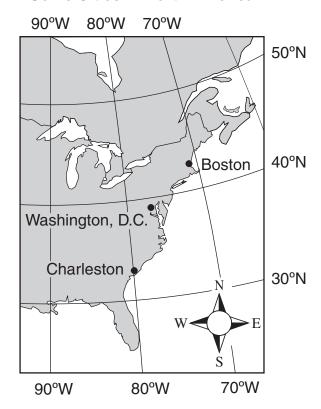
Н an ocean.

- What part of the federal government decides if a law follows the U.S. Constitution?
  - **A** the Congress
  - **B** the President
  - **C** the Supreme Court
- 6 Many plantation owners wanted slavery to stay legal because slaves
  - **F** were a cheap source of labor.
  - **G** knew the best ways to sell crops.
  - **H** had the newest farming tools available.

transportation boundaries food and water source

- **7** Which of these provide the needs listed above?
  - **A** deserts
  - **B** mountains
  - **C** rivers

**Some Cities in North America** 



- Which of these cities is located at about 32°N and 80°W? 8
  - F Boston
  - Charleston
  - **H** Washington, D.C.

- 9 Which of these <u>best</u> describes the location of Washington, D.C.?
  - **A** 38°N and 77°W
  - **B**  $42^{\circ}$ N and  $71^{\circ}$ W
  - **C**  $40^{\circ}$ N and  $75^{\circ}$ W

.....

- Before the American Revolution, colonists protested laws which forced them to provide British soldiers with
  - **F** cannons.
  - **G** housing.
  - **H** clothing.
- 11 Which European group settled in Florida in the 1500s?
  - **A** French
  - **B** German
  - **C** Spanish

#### Report on the General Conditions and Needs of the Missions of Upper California

It is of the greatest importance that the missions be provided with laborers, to farm the land, and so raise crops. . . .

As regards our food supply . . . our sufferings are great....

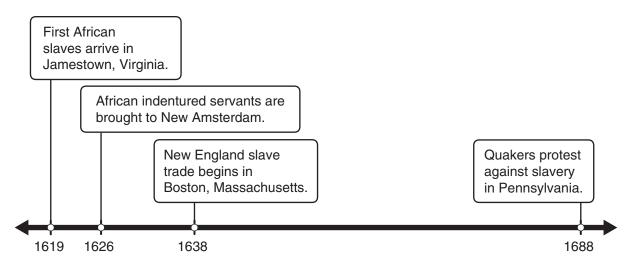
—Father Junipero Serra

#### 12 What problem is described in the passage?

- living in cold weather
- **G** getting enough to eat
- **H** fighting native warriors

#### **Directions**

Use the timeline below to do Numbers 13 and 14.

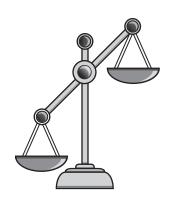


Note: Dates are approximate.

- Based on the timeline, when did the slave trade begin in New England?
  - **A** 1626
  - **B** 1638
  - **C** 1688
- What does the timeline say about slavery in the colonies between 1619 and 1688?
  - **F** Slaves were used mainly on small farms.
  - **G** There was slavery in both northern and southern colonies.
  - **H** It was against the law to own slaves.

#### 15 Which of these settlements was built on the Charles River?

- **A** Jamestown
- **B** Santa Fe
- **C** Boston



#### **Congress**

- Passes laws
- Approves Justices for the Supreme Court

### **Supreme Court**

?

- 16 Which phrase best completes the chart above?
  - **F** Decides if laws are constitutional
  - **G** Suggests new laws for the country
  - **H** Chooses the number of judges

- Which is the <u>main</u> reason French settlers came to Tennessee in the 1700s?
  - **A** to mine coal
  - **B** to raise tobacco
  - **C** to trade furs

Reports . . . contained such . . . messages as: "Cholera broke out . . ." and "489 persons from 800 arrived."

- Interview with Descendent of Trail of Tears Survivors, 1970
- 18 This passage suggests that in the Trail of Tears, Native Americans
  - **F** returned to their villages.
  - **G** suffered from disease.
  - **H** defended their homes from attack.
- What was the <u>main</u> reason for colonists dumping tea off of British ships during the Boston Tea Party?
  - **A** stopping colonial trade
  - **B** taxing without representation
  - **C** destroying colonial plantations

## The abolitionist movement angered many people in the South because it

- **F** called for the end of slavery.
- **G** increased taxes for plantations.
- **H** supported trade with other countries.

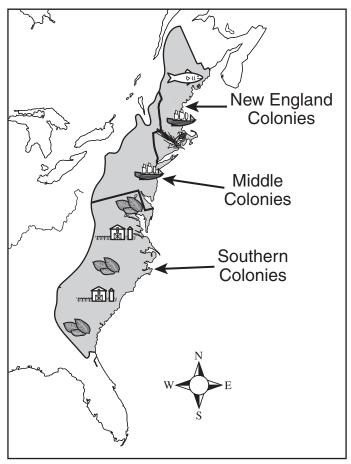
## 21 Sequoyah is an important person in history because he

- **A** united several tribes.
- **B** invented an alphabet.
- **C** guided early explorers.

## Which was one result of the Lewis and Clark expedition?

- **F** Citizens learned about western Native Americans.
- **G** Traders received maps of the Mississippi River.
- **H** Canada became friendly with the United States.

#### **Colonial Economic Activities, 1763**

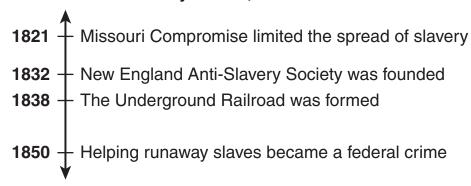


Key		
	Fishing	
	Corn and wheat farming	
	Shipbuilding	
	Tobacco	
	Plantations	

- According to the map above, the New England colonies had economies based mostly on
  - **A** fishing and shipbuilding.
  - **B** corn and wheat farming.
  - **C** plantations and tobacco.

Go On ▶

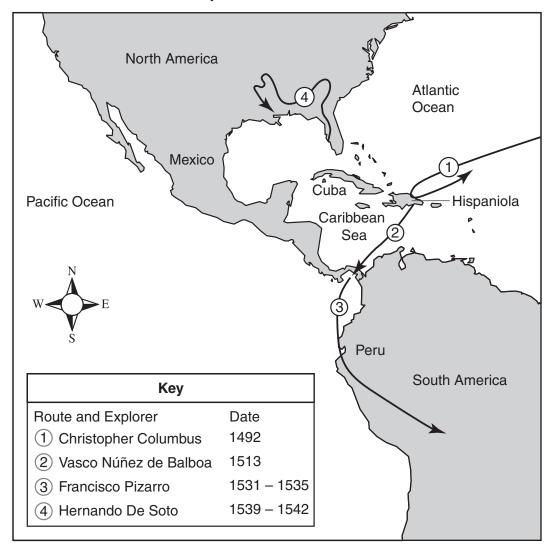
#### **Slavery Issues**, 1821 – 1850



- Which event on the timeline above led <u>most</u> directly to the law in 1850 that made it a crime to help runaway slaves?
  - **F** 1821 Missouri Compromise limited the spread of slavery
  - **G** 1832 New England Anti-Slavery Society was founded
  - **H** 1838 The Underground Railroad was formed
- In which area would a city need to be most careful about not wasting water?
  - **A** a river
  - **B** a desert
  - **C** a mountain

#### **Directions**

#### **Some Explorations to the Americas**



#### 26 Based on this map, which area did Pizarro explore?

- F Hispaniola
- Mexico
- **H** Peru

- **27** Which of these statements about Columbus's 1492 journey is true?
  - **A** He reached the Pacific Ocean.
  - **B** He explored the west coast of South America.
  - **C** He landed on the island of Hispaniola.

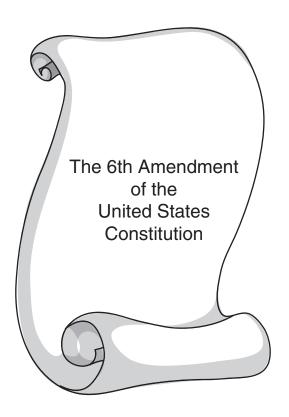
- **28** Which of these was created by the United States Constitution?
  - **F** local schools
  - **G** a national bank
  - **H** the federal court system
- Which right does the First Amendment grant to citizens of the United States?
  - **A** to make a public speech
  - **B** to have a trial by jury
  - **C** protection against cruel punishment

- **30** Which colonial group is known for treating everyone equally?
  - **F** the Dutch
  - **G** the Puritans
  - **H** the Quakers
- **31** Which person is known as a father of Tennessee?
  - **A** John Sevier
  - **B** Sam Houston
  - **C** David Crockett



## Part 2

- Why did hunters from Virginia cross the mountains into Tennessee in the 1750s?
  - **F** to trap furs
  - **G** to herd cattle
  - **H** to mine coal
- Which of these famous Tennessee citizens became a president of the United States?
  - **A** Sam Houston
  - **B** James Polk
  - **C** David Crockett



## **34** Which right is granted by the amendment above?

- **F** to vote for leaders
- **G** to have a speedy trial
- **H** to have freedom of the press

#### **Some Objects Used Long Ago**



Spinning Wheel



Cooking Pot



Churn

- 35 All of these items helped
  - **A** people travel.
  - children in schools.
  - **C** people meet their basic needs.
- 36 After the Revolutionary War, people bought their clothes made in a textile mill. Which of these objects helped people get clothes before the Revolutionary War?
  - Spinning Wheel
  - Cooking Pot
  - Butter Churn

- The Mayflower Compact is known as the first United States government because it
  - **A** set the example for self-rule.
  - **B** started a barter economy.
  - **C** formed a plan to pay taxes.
- What was the <u>main</u> reason many Native Americans died after the Europeans came to America?
  - **F** medicine
  - **G** disease
  - **H** trade
- Which group had many people living in Tennessee when it became a state?
  - **A** Russians
  - **B** Portuguese
  - **C** Scottish

40	Which of these cities was founded on the Hudson River?		
	F	Boston	
	G	New York	
	Н	Chicago	
		Actions of the?	
	•	Listen to both sides of the case Make a decision based on the laws Decide the kind of punishment	
41	WI	nich part of the government completes the title of the list above?	
	A	Police	

**B** Senators

**C** Courts

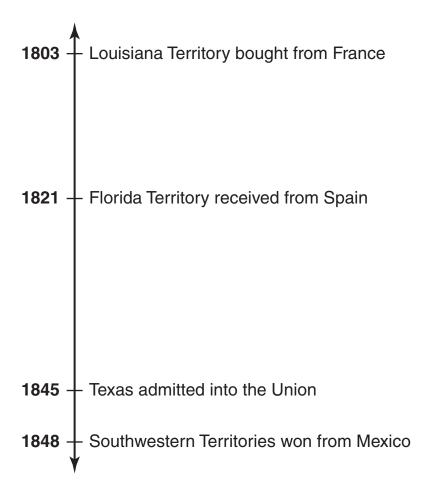
### **42** Which event was a result of the Louisiana Purchase?

- **F** Settlers had less contact with Native Americans.
- **G** Travel west became more difficult.
- **H** The United States gained natural resources.

# One of the <u>main</u> disagreements between the North and the South before the Civil War was over the

- **A** influence of foreign nations.
- **B** spread of slavery.
- **C** amount of farmland.

**Directions** Use the timeline below to do Number 44.



- As a result of all the events on the timeline, the United States
  - increased in size. F
  - **G** had fewer settlers.
  - **H** became a weaker country.

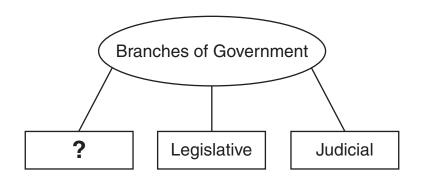
- Which of these would most help to create demand for a product?
  - **A** lowering the price of the product
  - **B** building new factories for the product
  - **C** hiring people to make the product
- Which Native American group lived in Central America before European exploration?
  - **F** Chickasaw
  - **G** Creek
  - **H** Mayan
- 47 Colonists won the American Revolution because they had
  - **A** a navy protecting ports from attack.
  - **B** militias who worked together.
  - **C** newspapers to report on the battles.

#### Value of Some Tennessee Products Sold — 1999

Product	Value (in millions of dollars)
Cattle and calves	330
Cotton and cottonseed	142
Hogs and pigs	35

- What was the value of hogs and pigs sold in Tennessee in 1999?
  - F \$330 million
  - \$142 million
  - \$35 million Н
- **49** Which of these products earned the most money in 1999?
  - A Cattle and calves
  - **B** Cotton and cottonseed
  - **C** Hogs and pigs

- Native Americans battled European settlers mostly because of a loss of
  - **F** food.
  - **G** trade.
  - **H** land.
- Which of these is an example of people using a barter system?
  - **A** Rachel gives Lee money for a bicycle.
  - **B** Paul gives Beth a puzzle in exchange for a game.
  - **C** Connie gets an allowance from her father for doing chores.



- **52** Which term <u>best</u> completes the diagram above?
  - **F** Executive
  - **G** State
  - **H** Federal

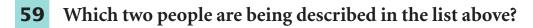
[For the slave master] it was never too hot or cold; it could never rain, blow, hail, or snow too hard for us to work in the field. . . . The longest days were too short for him, and the shortest nights too long for him.

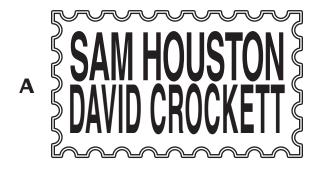
—Frederick Douglass, on his experience as a slave, from Narrative of the Life of Frederick Douglass, 1845

- Which of these <u>best</u> explains why slaves were expected to work in all types of conditions?
  - **A** to stay in good health
  - **B** to pay for their freedom
  - **C** to earn money for their owners
- Which of these physical landmarks in the United States was <u>most</u> likely created by erosion?
  - **F** the Great Lakes
  - **G** the Mississippi River
  - **H** the Grand Canyon

- The <u>main</u> reason early Tennessee settlements had trouble trading was communities
  - **A** could not get fresh water.
  - **B** were not near each other.
  - **C** would not barter goods.
- **56** Most of the early British colonists in America lived
  - **F** on the Atlantic Coast.
  - **G** on the Gulf Coast.
  - **H** near the Great Lakes.
- **57** Which phrase describes a job of John Sevier?
  - **A** president of the United States
  - **B** ambassador to Great Britain
  - **C** governor of the State of Franklin
- Which of these places would <u>most</u> likely have concerns about air pollution?
  - **F** a town
  - **G** a city
  - **H** a village

- Served as presidents of the United States
- Wanted to expand west
- Were members of the Democratic Party





ANDREW JACKSON JAMES POLK

JOHN SEVIER WILLIAM BEAN

- Which colony was founded by the English with the goal of finding gold and wealth for settlers?
  - **F** Georgia
  - **G** Pennsylvania
  - **H** Jamestown
- Before European explorers arrived, which Native American group lived in the area that became Tennessee?
  - **A** Chickasaw
  - **B** Sioux
  - **C** Iroquois



## Reading/Language Arts Answer Key

1	А
2	G
3	А
4	G
5	С
6	Н
7	Α
8	G
9	С
10	G
11	С
12	Н
13	С
14	Н
15	В
16	G
17	В

18	F
19	Α
20	F
21	В
22	F
23	C
24	Н
25	В
26	F
27	А
28	Н
29	В
30	G
31	C
32	G
33	Α
34	F

35	Α
36	Н
37	C
38	G
39	Α
40	G
41	В
42	G
43	Α
44	Н
45	C
46	G
47	Α
48	G
49	Α
50	Н
51	С

52	F
53	Α
54	Н
55	В
56	F
57	В
58	Н
59	А
60	F
61	С
62	F
63	В
64	F
65	С
66	G

## Mathematics Answer Key

1	Α
2	F
3	В
4	Н
5	С
6	G
7	В
8	F
9	С
10	F
11	В
12	F
13	С

14	F
15	С
16	F
17	В
18	F
19	Α
20	G
21	В
22	F
23	В
24	G
25	Α
26	Н

27	В
28	G
29	А
30	G
31	А
32	G
33	С
34	Н
35	А
36	Н
37	В
38	F
39	С

40	Н
41	Α
42	G
43	В
44	Η
45	В
46	G
47	В
48	Н
49	В
50	Н
51	С

# Science Answer Key

1	С
2	Н
3	В
4	G
5	С
6	G
7	С
8	G
9	С
10	Н
11	С
12	G
13	В
14	F
15	В
16	Н

17	С
18	F
19	Α
20	F
21	С
22	F
23	С
24	F
25	В
26	F
27	Α
28	G
29	В
30	G
31	А
32	G

33	Α
34	F
35	С
36	F
37	В
38	Н
39	Α
40	G
41	Α
42	G
43	Α
44	F
45	В
46	Н
47	С
48	F

49	А
50	Н
51	С
52	F
53	В
54	Н
55	А
56	G
57	С
58	F
59	С
60	Н
61	В

# Social Studies Answer Key

1	А
2	F
3	В
4	F
5	С
6	F
7	С
8	G
9	Α
10	G
11	С
12	G
13	В
14	G
15	С
16	F

17	С		
18	G		
19	В		
20	F		
21	В		
22	F		
23	Α		
24	Н		
25	В		
26	Н		
27	С		
28	Н		
29	Α		
30	Н		
31	Α		
32	F		

33	В	
34	G	
35	C	
36	F	
37	Α	
38	G	
39	С	
40	G	
41	C	
42	Н	
43	В	
44	F	
45	Α	
46	Н	
47	В	
48	Н	

49	Α		
50	Н		
51	В		
52	F		
53	С		
54	Н		
55	В		
56	F		
57	C		
58	G		
59	В		
60	Н		
61	Α		



Tennessee Comprehensive Assessment Program

Modified Academic Achievement Standards ~ Grade 4

Practice Test